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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/783,339	02/20/2004	Brian Smidt	10646.399US01	6914

7590 12/05/2006
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EXAMINER

PAHNG, JASON Y

ART UNIT	PAPER NUMBER
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3725

DATE MAILED: 12/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. 10/783,339	Applicant(s) SMIDT ET AL.	
	Examiner Jason Y. Pahng	Art Unit 3725	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 12-17 and 28-37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 12-17 and 28-37 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 3, 2006 has been entered.

Claim Rejections - 35 USC § 112

The amendment overcomes the claim rejections made in the last Office action.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 12, 13, 15-17, 28, and 31-34 are rejected under 35 U.S.C. 102(b) as being anticipated by Verhoef et al. (US 6,843,435).

With regard to claim 12, Verhoef discloses a grinding machine with substantially all of the claimed structure including:

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1. a grinding drum (160) positioned within a mill box (154) having opposite sides (155);
2. the grinding drum (160) having an axis of rotation (axis of 171);
3. an anvil (182) having a cross-section, the cross-section including a wedge-shaped portion and a rectangular portion (Figure 3);
4. the wedge-shaped (182) portion having a tapering surface extending from a first reference point (closest to 171) to a second reference point (farthest from 171); and
5. the ends of the anvil (182) extending beyond (Figure 5a) the sides (155) of the mill box (154).

With regard to claims 13, 28, 34, and 37, Verhoef discloses an anvil (182) of solid construction (Figure 3) without weakening structure. The top tapering surface of the wedge portion receives the impacts of perpendicular forces generated by the grinding drum. See Figure 3.

With regard to claims 15-17 and 31-33, Verhoef discloses a mounting arrangement including a first support surface configured to support an end of a feed table (112) and a second support surface configured to support the anvil (182) from the outside of the mill box (154). See Figure 1.

With regard to claim 35, Verhoef discloses that a portion of the distance between the first reference point (closest to 171) and the axis of rotation (171) defines a minimum clearance.

With regard to claim 36, Verhoef discloses a first and second reference points aligned horizontally (Figure 3).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 14 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Verhoef et al. (US 6,843,435) in view of Zehr (US 2002/0056773). The claims call for clamp arms (60) to secure the ends of the anvil when positioned within the apertures (Figure 3). In a closely related art, Zehr discloses a grinding machine with clamp arms in order to secure the ends of the anvil when positioned within the apertures. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to provide Verhoef with clamp arms in order to secure the ends of the anvil when positioned within the apertures, as taught by Zehr.

Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Verhoef et al. (US 6,843,435) in view of Hadjinian et al. (US 5,881,959). The claim calls for a shape of the anvil to be such that a minimum clearance is defined between the rectangular portion and the drum. In a closely related art, Hadjinian discloses a grinding machine with a shape of the anvil to be such that a minimum clearance is defined between the rectangular portion (17) and the drum (18) in order to resist deflection

(Figure 6). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to provide Verhoef with a shape of the anvil to be such that a minimum clearance is defined between the rectangular portion and the drum in order to resist deflection, as taught by Hadjinian.

Response to Arguments

Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

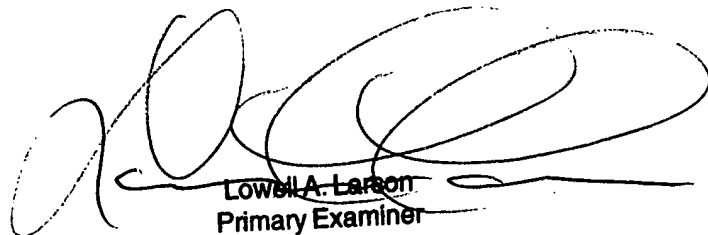
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Y. Pahng whose telephone number is 571 272 4522. The examiner can normally be reached on 9:30 AM - 8:00 PM, Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larson Lowell can be reached on 571 272 4519. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JYP



Lowell A. Larson
Primary Examiner